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Oct 7, 1994

DERWENT-ACC-NO: 1994-360887

DERWENT-WEEK: 199445

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TITLE: Vol. phase type hologram recording material - using polyester base polymer contg. ionising gps. and unsatd. acids and/or unsatd. glycol(s), polymerisation initiator and sensitising agent

PATENT-ASSIGNEE:

ASSIGNEE

CODE

TOYOBO KK

TOYM

PRIORITY-DATA: 1993JP-0068450 (March 26, 1993)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 06282209 A	October 7, 1994		005	G03H001/02

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 06282209A	March 26, 1993	1993JP-0068450	

INT-CL (IPC): G03F 7/004; G03F 7/027; G03F 7/028; G03F 7/038; G03H 1/02

ABSTRACTED-PUB-NO: JP 06282209A

BASIC-ABSTRACT:

The material uses as base polymer, a polyester contg. 20-1000 eq/ton (sic) of ionising gps. and unsatd. acids and/or unsatd. glycols as monomer components. It comprises an unsatd. monomer having at least a gp. that reacts with the base polymer, an initiator that polymerises the monomer and a sensitising agent that sensitises the initiator being contained in the base polymer.

The ionising gps. to be introduced into the base polymer are pref. a mono- and/or di-carboxylic acid having sulphonic alkali metal and/or sulphonic ammonium salt. the unsatd. acid component of the base polymer may be fumaric acid, maleic acid, etc. The unsatd. monomer is, e.g., vinylcarbazole, pentabromophenyl acrylate, divinyl benzene, etc. The material, after exposure to, e.g., Ar laser optical system, is soaked in water for development and dried.

USE/ADVANTAGE - The material has high refraction rate modulation, its development process is simple, exposure time for its imaging is short, and it stands well with moisture or weather. It is used for display devices.

CHOSEN-DRAWING: Dwg.1/2

TITLE-TERMS: VOLUME PHASE TYPE HOLOGRAM RECORD MATERIAL POLYESTER BASE POLYMER CONTAIN IONISE GROUP UNSATURATED ACID UNSATURATED GLYCOL POLYMERISE INITIATE SENSITIVE AGENT